

Claims

1. A method of obtaining energy from a wind power plant comprising a generator-driving turbine (19) with an axis parallel to the tower, whereby a cyclone is generated in the tower (12) open at the top and provided with a side inlet (13) for the wind so that the low-pressure region in the center of the cyclone generates the driving force for the air flow through the turbine, the tower (12) being rotated during operation such that the wind inlet (13) of the tower is maintained towards the wind, **characterized in** that the tower (12) is maintained in a leaning position to the vertical in a direction parallel to the direction of the wind.
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2. The method according to claim 1, **characterized in** that the tower (12) is maintained leaning at 10-30 degrees to the vertical.
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3. The method according to any of previous claims, **characterized in** that the tower (12) is maintained leaning to the vertical in a direction coinciding with the direction of the wind.
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4. The method according to any of previous claims, **characterized in** that the air is provided to a venturi-shaped inlet (21) through a plurality of helical channels (22) in a base (11) of the wind power plant.
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5. A wind power plant of cyclone type comprising a base (11), a tower (12) arranged above the base and being open at the top and provided with a side inlet (13) for the wind to generate a cyclone in the tower, a substantially horizontal turbine (19) having inlets (21, 22) through the base and outlet to the center of the cyclone in the tower and being connected for driving a generator (16) arranged in the base, **characterized in** that the tower (12) is formed such that it has an elliptical shape in the horizontal plane.
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6. The wind power plant according to claim 5, **characterized in** that said elliptical shape is formed by the tower having a circular cross section and leaning to the vertical in a direction parallel to the direction of the wind.
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7. The wind power plant according to claim 6, **characterized in** that the tower (12) is leaning at 10-30 degrees to the vertical, preferably in a direction coinciding with the direction of the wind.

5 8. The wind power plant according to claim 5, **characterized in** that the tower (12) is vertical and has an elliptical cross section.

10 9. The wind power plant according to any of previous claims 5-8, **characterized in** that the tower (12) comprises a rotor (23) with blades (28) and a shaft (24) parallel and coaxial to the tower which is connected to the shaft (20) of the turbine by means of a freewheel coupling (25).

10. The wind power plant according to claim 9, **characterized in** that the rotor shaft (24) is arranged for driving a water brake (27) for heating up water.

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